BRIGHT LED ELECTRONICS CORP.

SINCE 1981

BB-B5171-C

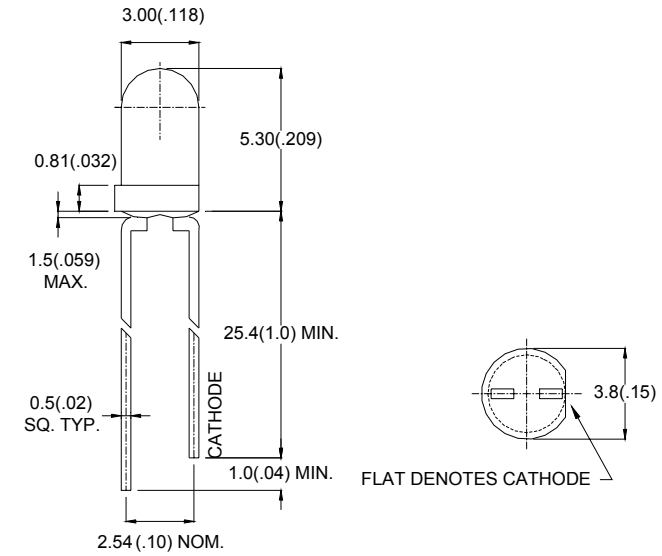
● Features:

1. Chip material: GaP /GaP
2. Emitted color : Bright Red
3. Lens Appearance :Red diffused
4. Pulse Rate 2.4 Hz (VDD=5V)
5. Operating Voltage：5V~12V (DC)
6. Easily be driven by TTL & C-MOS circuit no external circuit needed
7. Long life solid state reliability.
8. This product don't contained restriction substance, compliance ROHS standard.

● Applications:

1. TV set
2. Monitor
3. Telephone
4. Computer
5. Circuit board

●Package dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25mm (0.01") unless otherwise specified.
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.

● Absolute maximum ratings(Ta=25℃)

Parameter	Symbol	Rating	Unit
Operating Voltage	V_O	12(max)	V
Reverse Voltage	V_R	5(max)	V
Operating Temperature	Topr	-40℃~80℃	
Storage Temperature	Tstg	-40℃~85℃	
Soldering Temperature	Tsol	260℃(for 5 seconds)	

● Electrical and optical characteristics(Ta=25℃)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Pulse Rate	Pd	VDD=5V	2.0	2.4	2.8	Hz
Luminous Intensity	Iv	I_F=20mA	-	6.0	-	mcd
Peak Wave Length	λp	I_F=20mA	-	700	-	nm
Dominant Wave Length	λd	I_F=20mA	-	650	-	nm
Spectral Line Half-width	Δλ	I_F=20mA	-	100	-	nm
Viewing Angle	$2\theta_{1/2}$	I_F=20mA	-	45	-	deg

● Typical electro-optical characteristics curves

Fig.1 Relative intensity vs. Wavelength

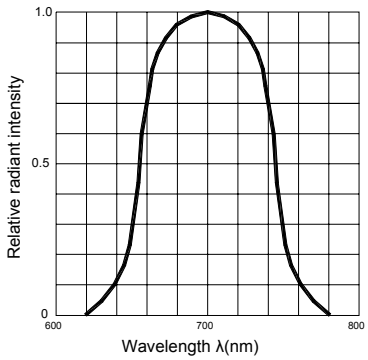


Fig.2 Forward current derating curve vs. Ambient temperature

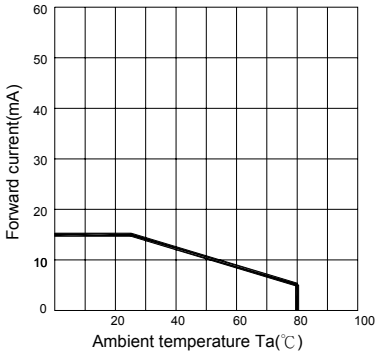


Fig.3 Forward current vs. Forward voltage

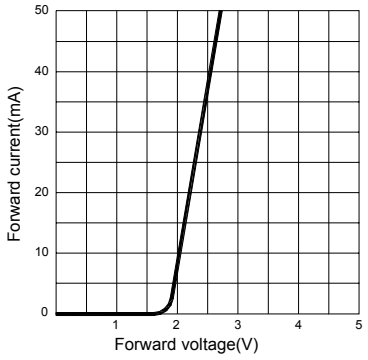


Fig.4 Relative luminous intensity vs. Ambient temperature

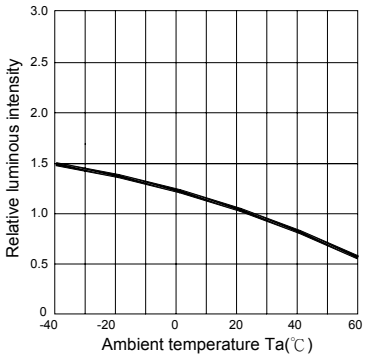


Fig.5 Relative luminous intensity vs. Forward current

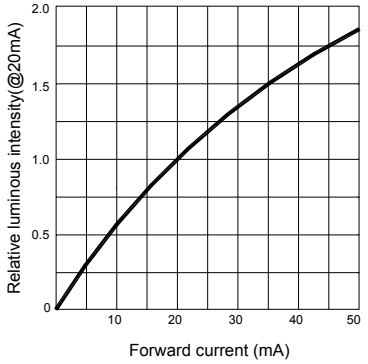


Fig.6 Radiation diagram